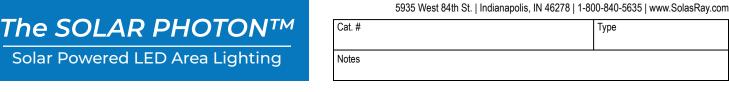
# **SOPH** Series

Solar Powered LED Area Lighting





## **KEY FEATURES AND BENEFITS**

- · Convenient LED light, solar panel, and battery integrated into a single unit.
- Adjustable angle.
- Up to 12,000 lumens, 40, 50 and 60 watt versions available.
- High conversion efficiency mono-crystalline photovoltaic solar panel.
- Long life and high temperature resistance LiFePO4 battery.
- 8 hour charge can power light up to 3 days in intelligent control mode, optional remote control available for intelligent control reprogramming.
- PIR motion sensor.
- Hybrid dual-powered option available AC power takes over if battery is low.



Optional remote control available for adjusting intelligent controls. See p2.

Solas Ray™lighting

Includes pole/side mount. Allows for up to 15° tilt up or down. Fits 2 3/8" tenon.

### **SPECIFICATIONS**

Wattage 40w / 50w / 60w

Color Temp 3000 / 4000 (Std) / 5000 Kelvin

Housing Aluminum Alloy

Color Silver (Std) / Bronze / Black (powder coated)

Lens Polycarbonate

Lifetime 101,000 hrs L<sub>70</sub>

**Distribution Pattern** Type II med (Std) / Type III short / Type V short

**Working Mode** Intelligent control

> Control Timer dimming / PIR sensor

0°C (32°F) to 50°C (122°F) recommended,

**Ambient Temperature** for colder temps - see Application Guide

> Protection IP65

Warranty 3 Year Limited Warranty

### **LUMENS**

Model	40w	50w	60w
Lumens	8,000	10,000	12,000

### BATTERY (Built-In)

With their high temperature resistance, large current discharge and long life cycle rating, LiFePO4 batteries are preferable for use in solar powered lights.

**Type** LiFePO4 (Lithium Iron Phosphate)

Up to 3 days (intelligent control) on full charge **Run Time** 

Up to 8 hours at 100% brightness

Life Cycle >2000 cycles

**Capacity** 24Ah (40w) / 30Ah (50w) / 36Ah (60w) Charge Time >6 hrs (40w) / >7 hrs (50w) / >9hrs (60w)

### SOLAR PANEL (Built-In)

Mono-crystalline is the preferred type of panel for solar powered lights due to their superior efficiency and lifespan. Features a 21% conversion rate, which is 30% higher compared to traditional solar panels.

**Type** High efficiency mono-crystalline

MPPT (Maximum Power Point Tracking - DC to DC converter that Charge Controller

optimizes the match between the battery and solar panel)

### PRODUCT ORDERING SELECTION

SOPH	-	-	_	-	-	-
Series	Watts	Kelvin	Distribution Pattern	Color	Mounting Options	Other Options
☑ SOPH	□ 040 - 40w	☐ 30 - 3000K	☐ II - Type II Medium (Std)	☐ SI - Silver (Std)	☐ LP - L-Shape Pole Mount Adaptor	☐ AAM - Adjustable Angle Module
	□ 050 - 50w	☐ 40 - 4000K (Std)	□ III - Type III Short	☐ BR - Bronze	☐ LS - L-Shape Square Pole Mount Adaptor	(Allows led panels to tilt +/- 30°)
	□ 060 - 60w	□ 50 - 5000K	□ V - Type V Short	□ BL - Black	☐ TP - T-Shape Pole Mount Adaptor	☐ HYB - Hybrid Dual-Powered
					☐ TS - T-Shape Square Pole Mount Adaptor	☐ BS - Bird Spikes
			Include 1 SOPH-REM			

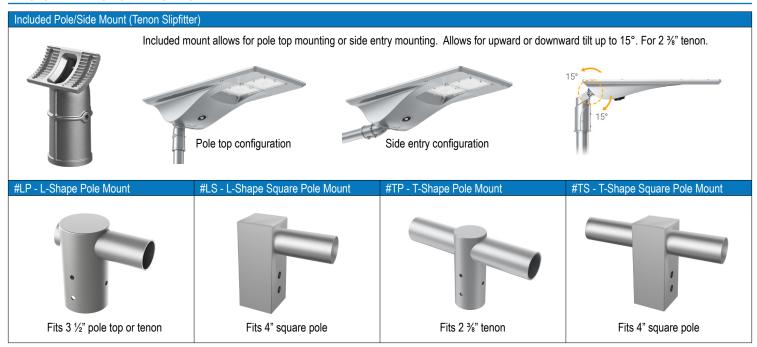
# **SOPH** Series

## The SOLAR PHOTON™



5935 West 84th St. | Indianapolis, IN 46278 | 1-800-840-5635 | www.SolasRay.com

### MOUNTING OPTIONS

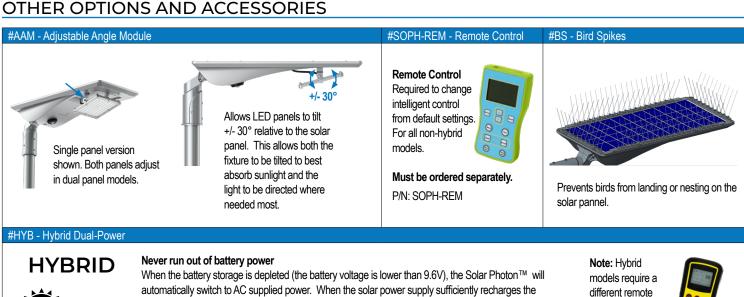


**Specifications** 

Power Factor: >0.9

Input Voltage: 100-277 VAC, 50/60 Hz

Surge Protection: 6kV line-earth / 4kV line-line



**Features** 

Hybrid controller

Constant current LED driver added

battery, the system will automatically switch back to battery power.

Include 1 SOPH-HYR

Remote Control

control than standard models

# **SOPH** Series

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### APPLICATION GUIDE

### TEMPERATURE ZONE MAP



Temperature affects battery performance reducing the total output of a fully charged battery as it gets colder. Recommended use of the Solar Photon $^{TM}$  for the above temperature zones are as follows:

**Zone 1** - Not recommended for use in this zone.

**Zone 2** - May be used in this zone. We recommend reducing intelligent control settings to 1/2 brightness of factory default settings.

**Zone 3** - Recommended for this zone.

### INTELLIGENT CONTROL MODE

Factory default settings of intelligent control mode.

### DAYTIME



The light continuously charges during daylight hours.

DUSK



100% brightness is maintained for the first 30min of night.

### FIRST 4 HOURS OF NIGHT



50% brightness when presence is detected in first 4 hours.



10% brightness when no presence is detected in first 4 hours.

### SECOND 4 HOURS OF NIGHT



20% brightness when presence is detected in second 4 hours.



10% brightness when no presence is detected in second 4 hours.



10% brightness for the remainder of the night.

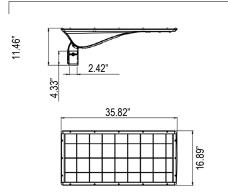
Use optional remote to change settings (purchased separately)

### WEIGHTS, EPA, BUG RATINGS AND DIMENSIONS

### WEIGHTS / EPA / BUG

11211137 21717 200							
Model	40w	50w	60w				
Weight	30.65 lb	31.75 lb	33.10 lb				
EPA	4.95 ft <sup>2</sup>						
B (Back)	1	2	2				
U (Up)	0	0	0				
G (Glare)	1	1	2				

### POLE TOP CONFIGURATION



### SIDE ENTRY CONFIGURATION

